

BHAVNAGAR DIVISION-S AND T/WESTERN RLY TENDER DOCUMENT

Tender No: DRMSnT-BVP-Sig11of26-27

Closing Date/Time: 09/07/2026 15:00

Sr.DSTE-BVP acting for and on behalf of The President of India invites E-Tenders against Tender No **DRMSnT-BVP-Sig11of26-27** Closing Date/Time 09/07/2026 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	Bhavnagar Division: Supply installation, Testing, Commissioning of Signalling gears and alteration in Medha make Electronics Interlocking system in connection of Bhimnath- Provision of Additional Loop Line.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	09/07/2026 15:00	Date Time Of Uploading Tender	17/06/2026 17:22
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	25757797.79	Tendering Section	SNT TENDER
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	515200.00	Validity of Offer (Days)	60
Tender Doc. Cost (Rs.)	0.00	Period of Completion	12 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	25/06/2026		
Are JV allowed to bid	No	Number of JV Member Allowed	0
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A-(SUPPLY ITEMS)							12433366.44	Above/ Below/Par
1	1	4.00	Numbers	84344.00	337376.00	AT Par	337376.00	
	Description:- Supply of IOCOM CPU CARD of Medha make EI system.							
2	2	4.00	Numbers	33004.00	132016.00	AT Par	132016.00	
	Description:- IOCOM VOLTAGE AND HEALTH MONITORING CARD of Medha make EI system.							
3	3	6.00	Numbers	43473.00	260838.00	AT Par	260838.00	
	Description:- INPUT WFM CPU CARD of Medha make EI system.							
4	4	4.00	Numbers	53501.00	214004.00	AT Par	214004.00	
	Description:- OUTPUT WFM CPU CARD of Medha make EI system.							
5	5	4.00	Numbers	36383.00	145532.00	AT Par	145532.00	
	Description:- WFM RELAY DRIVER CARD of Medha make EI system.							
6	6	2.00	Numbers	59001.00	118002.00	AT Par	118002.00	
	Description:- OCM VITAL CUT-OFF CARD of Medha make EI system.							
7	7	4.00	Numbers	25803.00	103212.00	AT Par	103212.00	
	Description:- POWER SUPPLY CARD TYPE B of Medha make EI system.							
8	8	4.00	Numbers	44663.00	178652.00	AT Par	178652.00	
	Description:- POWER SUPPLY CARD TYPE C of Medha make EI system.							
9	9	6.00	Numbers	110191.00	661146.00	AT Par	661146.00	
	Description:- SINGLE MODE RS485-OFC BI-DIR. CONVERTER of Medha make EI system.							
10	10	10.00	Numbers	11360.00	113600.00	AT Par	113600.00	
	Description:- 24V EMI FILTER of Medha make EI system.							
11	11	2.00	Numbers	339870.00	679740.00	AT Par	679740.00	
	Description:- OC Card files, Enclosure with mounting arrangement, Consisting of OC TOP & BOTTOM BACK PLANES (Two object controllers are accommodated in single enclosure) of Medha make EI system.							
12	12	2.00	Numbers	875000.00	1750000.00	AT Par	1750000.00	
	Description:- Supply of Relay Racks and Wiring accessories of Medha make EI system.							
13	13	6.00	Numbers	35000.00	210000.00	AT Par	210000.00	
	Description:- Supply of DC-DC Converters of Medha make EI system.							
14	14	1.00	Numbers	75762.36	75762.36	AT Par	75762.36	
	Description:- Supply of Remote Craft Terminal as per specification Intel i5, 15.6-inch, preloaded windows10 OR higher, RAM 8 GB DDR4 expandable upto 32GB, SSD 512 GB, Wifi, Bluetooth, with 3 years Onsite OEM warranty of Dell, Lenovo, HP Make. Prior approval to be taken before supply for make and specification.							
15	15	100.00	Kg	110.04	11004.00	AT Par	11004.00	
	Description:- Rubber Mat for Power Equipment room. (5mm thick).							
16	16	10.00	Numbers	5778.94	57789.40	AT Par	57789.40	

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16				Description:- Relay QNA1, AC immunized,08F/08B, 12F-4B, 24VDCalong with plug board, retaining clip and connectors conforming to BRS: 931A, IRS: S60, IRS: S34 & IRS: S24.			
17	17	1.00	Kilometre	44446.73	44446.73	AT Par	44446.73
				Description:- Flexible cable (Power wire), multi-strand copper conductors cross section 1x6 Sq. mm. (85 conductor each diameter 0.30 +/- 0.01) as per IS 694/1990 with insulation thickness of 0.80 mm nominal conductor resistance 3.30 ohms/km and test parameters are as per IRS(S)76/89 or latest.			
18	18	1.00	Kilometre	123096.69	123096.69	AT Par	123096.69
				Description:- Flexible cable (Power wire), multi-strand copper conductors cross section (1x16Sq.mm).101 Conductors each diameter 0.45 +/- 0.01 as per IS 694/2010 with insulation thickness of 1.2mm nominal conductor resistance 1.127 Ohms/Km and test parameters as per IRS(S) 76/89 or latest.			
19	19	1.00	Kilometre	119877.38	119877.38	AT Par	119877.38
				Description:- Flexible cable (Power wire), multi-strand copper conductor's cross section 25 Sq. mm (0.4x196) as per specn. IS 694/2010 with latest amendment, and test parameters as per IRS(S) 76/89.			
20	20	10.00	Kilometre	6478.34	64783.40	AT Par	64783.40
				Description:- Single core multi-strand wire 0.5 sq.mm. (16 conductor each dia. 0.2mm), as per IRS 76/89 (Amd3) or latest.			
21	21	5.00	Numbers	8051.11	40255.55	AT Par	40255.55
				Description:- Extinguisher CO2 type (capacity 4.5 kg. or above).			
22	22	2.00	Each Module	34332.00	68664.00	AT Par	68664.00
				Description:- Fuse auto changeover system for use in Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprises 32 nos. of external Non-Deteriorating Type or 'G' type fuses from 0.6 Amp to 4 Amp capacities which are in signaling circuits. The system shall have 8 cards with a monitoring arrangement of 4 fuses in one card.			
23	23	1.00	Each Module	58494.08	58494.08	AT Par	58494.08
				Description:- Fuse auto changeover system for use in Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprises 24 nos. of external Non-Deteriorating Type or 'G' type fuses from 4 Amp to 10 Amp capacities which are in signaling circuits. The system shall have 6 cards with a monitoring arrangement of 4 fuses in one card.			
24	24	300.00	Numbers	25.87	7761.00	AT Par	7761.00
				Description:- Indicative type Fuse suitable to G type fuse base/holder of capacity 0.63 A - 3.0 A. (System, Rapid, Malnad or RBCO make or similar).			
25	25	100.00	Numbers	72.17	7217.00	AT Par	7217.00
				Description:- Indicative type Fuse base/ holder with cap, suitable to G type fuse of capacity 0.63A - 3.0A. (System, Rapid, Malnad or RBCO make or similar).			
26	26	50.00	Numbers	34.44	1722.00	AT Par	1722.00
				Description:- Indicative type Fuse Without holder 6A (System, Rapid or Malnad or RBCO make or similar) as per IRS: S-80/92.			
27	27	50.00	Numbers	57.21	2860.50	AT Par	2860.50
				Description:- Round head type non deteriorating type low voltage cartridge fuse as per Spec No IRS/S/78/92 with latest amendments 2A/4A/6A capacity.			
28	28	8.00	Numbers	6174.93	49399.44	AT Par	49399.44
				Description:- Miniature, Plug in Type, M to C, DC Neutral, Track relay, ACI, Style QTA2, 9 Ohm, 2F-1B contact, Code - FGKX Spec: BRS :939-A & 966 (Appx-F2) & IRS: S-23, S-23, S-34 & 60.			
29	29	8.00	Numbers	6747.30	53978.40	AT Par	53978.40
				Description:- Miniature, Plug in Type, DC Neutral, Line Relay QSPA1, 24V DC, Slow to Pick up AC Immunized, 12F-4B/8F-4B Contact, Code ABDEJ Spec: BRS:933A; IRS S 34; IRS S 23; IRS S 60-78.			
30	30	8.00	Numbers	4014.74	32117.92	AT Par	32117.92
				Description:- Track feed battery chargers, 110V AC input, 2 to 6/10 V DC Output; as per Specn. No. IRS.S 89/2013 with latest amendments. Charger shall be suitable for charging 80 AH battery.			
31	31	8.00	Numbers	1091.42	8731.36	AT Par	8731.36
				Description:- Adjustable Track Feed Resistance disc type 30 ohms as per RDSO Drg. No. SA 20166/M (Adv.) with latest amendments (with Phenolic molded base).			
32	32	30.00	Numbers	1244.21	37326.30	AT Par	37326.30
				Description:- Track Lead Junction Boxes as per C. Rly Drg. No. RST 11509 made from fibre glass/SMC/FRP along with terminal blocks.			
33	33	2000.00	Kg	83.92	167840.00	AT Par	167840.00
				Description:- GI wire 8 SWG (4mm Dia) suitable for track circuit rail bonding.			
34	34	500.00	Numbers	5.46	2730.00	AT Par	2730.00
				Description:- Channel Pins MS (Galvanized) single groove, 7 mm suitable for 4mm Dia bonding wire as per spec No IRS S 17 & RDSO Drg No. S-69/M.			
35	35	15.00	Set	1747.25	26208.75	AT Par	26208.75
				Description:- Point insulation Complete set as per RDSO Specification IRS: S-40/84 for Switch bracket, Split-Stretcher bar & Gauge tie plates (52 Kg/60Kg as per site requirement).			
36	36	4.00	Numbers	10044.70	40178.80	AT Par	40178.80
				Description:- Key Lock Relay working on 24V DC, AC immunize with different ward combinations (Three ward plates to be supplied with each relay). Key ward shall be specified by engineer in charge as per requirement.			
37	37	10.00	Numbers	19889.74	198897.40	AT Par	198897.40

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			Description:- Apparatus Case Single NE Rly Type as per Drg. No. W. Rly/SW/47/68 Alt-A, fitted with two no.s of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376/3473 and Key to Drg. No. 3377 Note: This item includes the supply & fixing of 2 No.s E Type Lock fitted on both doors, along with two Keys.				
38	38	5.00	Numbers	14770.37	73851.85	AT Par	73851.85
			Description:- Apparatus Case half NE Rly Type as per Drg. No. W. Rly/SW/47/68 Alt-A fitted two no.s E Type lock of (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376/3473 and Key to Drg. No. 3377. Note: This item includes the supply & fixing of 2 No.s E Type Lock fitted on both doors, along with two Keys.				
39	39	15.00	Numbers	5320.50	79807.50	AT Par	79807.50
			Description:- IS 13410: Glass Reinforced Polyester Sheet Moulding Compounds (SMC) Size of Sheet: 1000x1000x8.				
40	40	50.00	Numbers	245.03	12251.50	AT Par	12251.50
			Description:- Supply of 4 connection points single potential through screw less terminal block for 6 Sq.mm - 35 Sq.mm, 4 connection points 284-621/624 or superior, suitable for power cable connection.				
41	41	1000.00	Numbers	52.95	52950.00	AT Par	52950.00
			Description:- Disconnect Terminal Block, Screw less type, 4-wire front entry (Two in-put & Two out-put) The color will be decided by Engineer - in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3). as per RDSO Spec. No. RDSO/SPN/189/2004. With latest amendments. Note: Make to be approved by Railway before supply.				
42	42	20.00	Numbers	10.02	200.40	AT Par	200.40
			Description:- Supply of End plate 2.5mm/0.091 in thick as per site requirement.				
43	43	20.00	Numbers	9.83	196.60	AT Par	196.60
			Description:- Supply of End Stopper 10mm/0.0394 in width as per site requirement.				
44	44	10.00	Numbers	103.03	1030.30	AT Par	1030.30
			Description:- Supply of Carrier Rails for above 35mm x 7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement.				
45	45	3000.00	Numbers	91.35	274050.00	AT Par	274050.00
			Description:- ARA Terminal blocks with links made of PBT Spec Nos/75/2006 (Rev - 2) with latest amendments and RDSO Drg.No.SA-23741A Alt.4.				
46	46	25.00	Numbers	5182.56	129564.00	AT Par	129564.00
			Description:- Magneto telephone with generator as per RDSO specification No. IRS:TC 36/97 amendment 1 weight per unit 2 kg.				
47	47	2000.00	Numbers	1970.55	3941100.00	AT Par	3941100.00
			Description:- Supply Polyolefin cable channel of size width 240/340 mm, height 155/230 internal/external, length 1 meter produced of polyolefin with fire protection class K-1 in accordance with DIN 53438 Part-II for laying signaling/telecom cables, channel attachable to each other with male female swallow tail connectors and having a suitable detachable cover, as per RDSO STS/E/cable laying Precise Vol-IV and as per technical specifications.				
48	48	100.00	Numbers	1900.08	190008.00	AT Par	190008.00
			Description:- Supply and fixing of polyolefin cable channel (Injection Moulded Plastic cable Duct) of size width 100/200 mm, height 155/230 internal/external, length 1 meter produced of polyolefin with fire, protection class K-1 in accordance with DIN 53438 part all for laying signaling/telecom cables, channel attachable to each other with male female swallowtail connectors and having suitable detachable cover including supply of all fixing materials like Brackets, etc. , as per RDSO STS/E/cable laying Precise Vol-IV and as per technical specifications.				
49	49	500.00	Numbers	359.35	179675.00	AT Par	179675.00
			Description:- Supply of Half Round RCC pipes & collars of 300 mm outer dia & 250 mm internal dia (1 meter long) along with collars with material strength as per IS No. 458/2003 of NP type.				
50	50	25.00	Numbers	2192.97	54824.25	AT Par	54824.25
			Description:- Double Walled Corrugated (DWC) HDPE Pipe with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti-oxidant and non-flame propagating type in 6 meters straight length and of size 120 mm outer die, & 103.5 mm inner dia. One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber 'O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap (The total quantity of above items is equal to no. of pipes supplied.) DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vender name and year of manufacture can be easily identified. Color -Bright Orange; Min Weight = 4kg. Test Check by Consignee & Sample check by JAG officer.				
51	51	7.00	Numbers	14604.78	102233.46	AT Par	102233.46
			Description:- Colour Light Signal Complete. This includes: - (1). Post Tubular 140 mm Dia, as per IRS: S-6/81 or Latest & RDSO Drg. No. SA- 24625 (Advance). (2). CI Base (As per IRS S-10 & RDSO Drg. No. 2011/M with latest assembly). (3). Pinnacle. (4).Ladder Assembly, as per RDSO Drg. No. SA-23156, with Base, Ladder Guards, Platform, Front Maintenance Platform, MS Supporting bracket to Support Ladder. (5). Signal Front Staging Complete Assembly for CLS Unit. (6). Signal back staging as per extent WR Practice. Note: Height of the Post shall be 5.5 Long.				
52	52	5.00	Numbers	29915.16	149575.80	AT Par	149575.80
			Description:- Non Metallic (FRP) color light signal housing multi-unit type for railway signaling suitable for RE area TWO Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Vol. 1.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest.				
53	53	4.00	Numbers	31219.67	124878.68	AT Par	124878.68
			Description:- Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area THREE Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23002/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Vol.1.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest.				
	54	2.00	Numbers	18990.34	37980.68	AT Par	37980.68

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54	Description:- Junction route indicator unit 2 way as per Drg. No. RDSO SA 23402 is suitable for LED Signal Lighting Units & as IRS: S-66/84 amndt-1 or latest.							
	55	1.00	Numbers	5265.72	5265.72	AT Par	5265.72	
55	Description:- Position Light Shunt Signal Unit Complete with Post (made of GI Pipe of 80 mm Diameter Medium Class IS Spec. No. IS: 1239 Pt. 1/1990) Base, Hood, and Cover, etc. as per Drg. No. SA-23840, Signal Number Plate, suitable for LED Signal Lighting Unit. (Supply of LED Unit is not covered in this item).							
	56	16.00	Numbers	11271.19	180339.04	AT Par	180339.04	
56	Description:- Maintenance Free Earth Electrode of length 3m, including supply of 3 bags of Earth enhancement material for earthing (10KGs /bag) for each electrode & other accessories as per Drg. No. SDO / RDSO/ E&B/001 and RDSO Spec No. RDSO / SPN/197with latest Amd.							
	57	40.00	Numbers	2763.58	110543.20	AT Par	110543.20	
57	Description:- Earth Electrode as per Drg. No. CSTE / 6091.							
	58	500.00	Metre	613.28	306640.00	AT Par	306640.00	
58	Description:- Supply of copper strip for earthing (25mm x 3mm).							
	59	1000.00	Metre	221.14	221140.00	AT Par	221140.00	
59	Description:- Supply of GI flat for earth (50 X 6 mm).							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-(EXECUTION ITEMS)							10182474.25	Above/ Below/Par
	1	1.00	Lumpsum	5275000.00	5275000.00	AT Par	5275000.00	
1	Description:- Modification of EI System of Medha at BHIMNATH Station of WR, as per RDSO spec no: RDSO/SPN/192/2019. Modification to the existing Application Logic circuits and Interface circuits. Alteration to the MT and VDU software. Up-gradation of Data-logger database at MEDHA end. FAT (Factory Acceptance Test), SAT and commissioning as per the Modified Application Logic. ASMADES							
	2	2.00	Numbers	78380.49	156760.98	AT Par	156760.98	
2	Description:- Supply, Installation and Commissioning of EI VDU (Visual Display Unit, 4K with all suitable accessories Compatible to EI Interlocking in Safe Mode 24x7 at controlling station. The item must comply minimum following specification:- a) Screen Size (Diagonal):- As below b) Resolution :- 4K c) Viewing angle degree: - 178x178 degree d) Brightness :- 500 Nits e) contrast ratio 4000:1 f) Backlit :- Direct LED g) Jack Interface: - HDMI -3 no. 1.2 DP, DVI USB 2.0 -2 no. CI Slot RF In AV In Component In (RCA5 Type) Digital Audio Out RGB In (D-sub 15pin)-PC PC Audio Input RS232C (D-Sub 9pin) RJ45 Stereo mini jack. h) Optical Out :- Available Note: - Screen size will be decided as per instruction of engineer in charge. Approximate Screen size 55 inch.							
	3	2.00	Numbers	272862.00	545724.00	AT Par	545724.00	
3	Description:- Supply and Installation of Modular power supply arrangement for VDU and industrial PC (Embedded PC) with input and output redundancy arrangement and Hot pluggable Modules as per RDSO specification. Make Gallant or similar. One set consists of 1. Input O- ring diode module with potential free -1 No contacts (PFC) for two 110 V DC sources from IPS and single 110 VDC bus Qty 1 No. 2. Isolated Inverters (Master / slave) - Input-110 V DC Output: 120 V AC/220V A500VA - 02 Nos. 3. Isolated DC-DC convertors- Input: 110 v DC Output: 24 V DC/ 10A, Qty - 10 Nos 4. 3 U SS rack with back panel mother board /front panel power connectors inverter auto change over switch and all required over switch and all required protection circuits (3U height for main rack 132.5mm +/-10% & 1U height for mounting 44.5mm +/- 10%) Qty - 1 No. Make Gallant or similar.							
	4	2.00	Numbers	162266.99	324533.98	AT Par	324533.98	
4	Description:- Supply & installation of Industrial Grade Embedded PC as per RDSO TAN no. STS/E/TAN/3007 dated 2.11.12 or latest. Prior approval to be taken before supply.							
	5	24.00	Per Route	347.21	8333.04	AT Par	8333.04	
5	Description:- Additional Functional testing (SAT) of PI/RI/IBS /Auto signal etc. as per Selection table, control table etc. Contractor shall depute one Engineer, one Supervisor & wiremen technically qualified to carry out functional testing as per approved design. Technical knowledge of contractor's staff will be judged by Railways Engineer incharge before permitting them to do the testing. Contractor has to note down all the discrepancies found in testing noted during functional test in a separate design register and to be counter signed by Railways representative. Rectification of circuit discrepancies to be done after taking approval of changes in circuit diagrams by Railways. Mistakes found to be rectified free of cost by contractor. Omission in testing or wrong testing found after functional test will be penalized @ 5% pf rate per route.							
	6	1.00	Job	120568.88	120568.88	AT Par	120568.88	
6	Description:- Earthing of EI equipment, relay racks and Power equipment etc. to be done along with the supply of all requisite materials. Earthing shall be in the form of Ring Earth conforming to RDSO specification No. RDSO/SPN/197/2008 (with a min. of 6 maintenance free earth electrodes) & RDSO Drawing issued under Railway Board letter No. 2010/Sig./SGF/EI (Ansaldo) Dated 22.06.11, made using copper rings with earth resistance less than 1 ohm. The earthing shall be maintenance free & earth enhancement compound should be used. The ring earth shall be connected to copper flat of size 25x3 mm in the relay room and IPS room. This copper flat shall be fixed on the wall to the entire breadth of the Relay room and IPS room as an earth bus bar and all earth connections shall be taken from it. A, B, C, & D class protection shall be provided for all EI equipment. Note: - This will also cover the earthing& necessary protection of EI equipment as per details given in the scope of work of Special Condition of Contract and other requirement given in Chapter of tender document & Pre-commissioning check list of EI system.							
	7	1.00	Station	148076.00	148076.00	AT Par	148076.00	
7	Description:- Design of Circuit Diagrams consisting Wiring/Logic diagram, contact analysis, fuse detail, Input/output bit chart, VDU diagram, Interface etc. submission of Three paper copies for approval. Upto 50 Routes. (Unit read as per station)							
	8	1.00	Station	4911.62	4911.62	AT Par	4911.62	

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8	Description:- Design of Miscellaneous diagram consist of Floor Plan of Relay Room, Battery Room, Power Equipment Room, Data logger room, Power Supply Diagrams along with power supply calculation, Earthing Diagram, Power panel diagram, IPS wiring diagram , Auto change over diagram, Block circuit wiring diagram, Digital Axle counter wiring diagram and all other relevant drawings (Three copy) for approval. Upto four line. (unit read as par station)						
9	9	1.00	Set	9748.11	9748.11	AT Par	9748.11
	Description:- Design of Cable Route Plan submission of Three paper copies for approval.						
10	10	1.00	Station	1560.01	1560.01	AT Par	1560.01
	Description:- Supply of final Cable Route Plan as per laid cable duly measured at every 30m clearly indicating distance of laid cable from fixed point of reference & indicating all track crossings and tail cables in original tracing along with Auto CAD in Pen Drive and Six set copies after approval.(unit read as per station)						
11	11	1.00	Station	57627.58	57627.58	AT Par	57627.58
	Description:- Design and supply of cable corage plan, location particulars, Cable termination rack particulars, cable meggering report, earth resistance particulars, Traction bonding diagram, 1/2 wire count sheet and any other drawing in AutoCAD in A3/A4 size. The contractor shall initially supply 3 sets of circuits complete for approval of Railways. Railways will return one set to the contractor duly approved with alterations/corrections, if any. The contractor shall incorporate Railway's alterations/corrections in the tracings without any deviation and submit all tracings complete in all respects to the Railways along with PENDRIVE & 4 sets of final approved drawings. This includes designing of cable coreage plan based upon I.P in consultation with engineer-in-charge For small/medium yards. (unit read as per staton)						
12	12	1.00	Station	19743.00	19743.00	AT Par	19743.00
	Description:- Design of ST/LT/TOC/Square sheet/RCC (Three copy) for approval. Upto four line station.(unit read as per station)						
13	13	1.00	Numbers	845.30	845.30	AT Par	845.30
	Description:- Supply of completions ST/LT/TOC in original tracing along with Auto CAD copies in Pen Drive and six set copies after approval. Up to four line station.						
14	14	2500.00	Numbers	12.82	32050.00	AT Par	32050.00
	Description:- Supply of ferrules of different colour, printing termination details / Functions in different colours as per Railway specification and installation in Relay room, Location Box and Power board etc, at various stations and LC gates as per instruction of Engg. in charge. All materials required for the work shall be supplied by the contractor.						
15	15	1.00	Numbers	26023.47	26023.47	AT Par	26023.47
	Description:- Design and supply SWR Diagram on standard tracing paper of 95 grams for each station. Corrected version of SWR plans after checked & approved by Rly's 25 copies will be supply for each of the plans.For stations having up to 4 lines.						
16	16	3.00	Numbers	2738.73	8216.19	AT Par	8216.19
	Description:- Fabrication and supply of premium quality foam sheet 5mm thickness with vinyl printing of approximately size 2.5 feet x 4.5 feet with framing. This item also includes lettering/numbering of termination particulars, CTR contact details in relay room, relay hut, goomties etc. This item also includes all material and resources required for fixing and transportation at stations & LC gates of Bhavnagar Division. Colour coding of CTR termination details will be as per WR/HQ policy letter, CTR termination details will be given by Railway. Work will be carried out as per western Railway practice. Sample of CTR to be provided before printing of all CTR of Division.						
17	17	10.00	Numbers	267.98	2679.80	AT Par	2679.80
	Description:- Fabrication and supply of premium quality foam sheet 5mm thickness with eco vinyl printing of approximately size 12 inch x18inch. This item includes lettering / numbering of termination particulars of gears etc. This item also includes all material and resources required for fixing and transportation at station & LC gates of Bhavnagar Division. Colour coding of termination details will be as per WR/HQ policy letter. Termination details of location box will be given by Railway. Work will be carried out as per Western Railway practice One sample to be provided before printing.						
18	18	10.00	Numbers	256.80	2568.00	AT Par	2568.00
	Description:- Function Description of writing details of location boxes at station and LC gates to design in Auto Cad for full and half apparatus cases. Soft copy designed in Auto CAD to be provided in a storage device for future records purpose. Design and color coding should be done in Auto CAD as per latest policy of WR. Writing details will be provided by Railway. One sample to be provided before final printing.						
19	19	1.00	Numbers	52500.44	52500.44	AT Par	52500.44
	Description:- Supply of Smart Cabinet/Rack for Housing of Various S&T equipments like KLCR, Reset Box, IPS Indication Panel, CA VA Unit for FACS, SPAU for Point Reversal, Crank Handle, Quad Cable Earth Sensing Unit along with Fixing of KLCR (KLCR will be provided by Railway) as per instruction of Site Engineer, Make RITTAL, SANTEL, VERO, PRESIDENT, APC Schneider or similar reputed make.						
20	20	2.00	Job	37526.61	75053.22	AT Par	75053.22
	Description:- Tripod Earthing of HADAC to be done along with the supply of all requisite materials. Earthing shall be in the form of Tripod Earth conforming to RDSO specification No. RDSO/SPN/197/2008 (with 3 no.s maintenance free earth electrodes), with earth resistance less than 1 ohm. The earthing shall be maintenance free & earth enhancement compound should be used. The earths shall be interconnected by copper strip of size 25x3 mm.						
21	21	21000.00	Running Metre	10.71	224910.00	AT Par	224910.00
	Description:- Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trucking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of colored plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each G.P. (Cables will be daggered before and after its laying by contractor under supervision of Railway Representative and he will submit the meggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes.						
	22	3.00	Each Module	1048.19	3144.57	AT Par	3144.57

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22	Description:- Installation wiring testing and commissioning of Fuse changeover system (FACS). This includes the provision of a common Buzzer & indication at the ASM Room & ESM Duty Room and the painting of fuse details. This also includes the fabrication of a frame for the installation of FACS at the Station/ LC gate where the installation of relay racks is not feasible.						
23	23	1.00	Numbers	137129.80	137129.80	AT Par	137129.80
	Description:- Earth Leakage Detector as per RDSO/SPN/256/2002 or latest with latest amendments. The basic detector unit shall comprise of 8 channels, for use on signaling circuits of 110V AC/DC and/or 60V/24V/12V DC as ordered by purchaser. If the detector is required for less number of channels, dummy plates shall be provided. For additional requirement add on /expendable cabinet may be used. The voltage specified shall be provided with + 25% and - 10% tolerance. Installation as per instruction given by Railway.						
24	24	2.00	Numbers	39014.34	78028.68	AT Par	78028.68
	Description:- EARTH LEAKGE TRACKING UNIT (ELTU) - for 12 channel Earth Leakage Detector. Item includes supply, brief installation and site demonstration. Installation as per instruction given by Railway. Installation as per instruction given by Railway.						
25	25	10.00	Per Detection Point (DP)	15648.00	156480.00	AT Par	156480.00
	Description:- Installation of track device (double rail contact) including digging of trench, track crossing, laying of anti-rodent, anti-oxidant & non-flame propagating type Double Walled Corrugated (DWC) pipe as per IS- 14930 part- I or II or latest and all other accessories as per site requirement to be for laying of transmitter and receiver cable. The item also includes installation of EJB / Track side Electronics including foundation & earthing as per OEM's guidelines and Technical requirement & specification with their own material. NOTE: Installation / programming / configuration / commissioning of Axle counter equipment to be carried out in accordance with latest guidelines issued by Railways/RDSO preferably by Authorized representative of OEM.						
26	26	1.00	Numbers	11984.00	11984.00	AT Par	11984.00
	Description:- Installation of Central Evaluator of axle Counter, wiring from CT rack to Central Evaluator, installation and wiring of the reset box, LV box (if required) and associated power supply wiring. This includes supply of shielded cable of required conductor size for wiring between CT rack to evaluator rack, all other wires, power supply cable and wiring materials. The power supply cable from power room to Central Evaluator should not be less than 10 sq.mm PVC wire. Earthing as per OEM's guidelines & specification with their own material. This also includes painting and writing work on evaluator as per site requirement. NOTE: Installation /programming / configuration / commissioning of Axle counter equipment to be carried out in accordance with latest guidelines issued by Railways/ RDSO preferably by Authorised representative of OEM.						
27	27	70.00	Numbers	389.34	27253.80	AT Par	27253.80
	Description:- Charging of Lead Acid Batteries (2V 80AH) with contractors' own battery grade sulphuric acid and distilled water with a minimum of two charge-discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per the extant practice of W.Rly & instruction of the Engineer-in-charge. Detailed measurements of initial charging shall be recorded jointly by the contractor & Rly's site-in-charge.						
28	28	50.00	Set	216.20	10810.00	AT Par	10810.00
	Description:- Provision of bonding with GI wire 4mm Dia (8 SWG) for track jumper & fish plate joints bonds. This will include drilling of 7.0/7.1/7.2 mm Dia holes in rails (4 Nos.) and provision of two jumpers for each bond, clipping of bonds etc. with contractors own tools as per instruction of Rly. Engineer at site.						
29	29	12.00	Per Track Circuit	8005.27	96063.24	AT Par	96063.24
	Description:- Fixing and wiring of DC track circuit equipments i.e. track feed charger, resistance, track relay, battery, PPTC fuses etc., in the Apparatus Case and battery box as per standard practice. Termination of tail cable on M 6 / Screw less terminals WAGO or FINOLEX or similar approved make terminals/ fuse blocks / HRC fuse. Item includes testing /commissioning of track circuit. Complete wiring material (including PPTC fuses) which are not covered in Schedule will be supplied by contractor. (Supply of Track feed battery charger, track feed battery, resistances & 'B' type choke & Track relays will be supplied by Railways / covered in Schedule separately).						
30	30	12.00	Set	8761.26	105135.12	AT Par	105135.12
	Description:- Installation of DC track circuits covering points zones also. The item includes provision of continuity bonds of seven strand PVC jacketed wire/ GI wire 8 SWG on rail joints after drilling bond-hole of 7.0/7.1/7.2mm Dia (double bond with sleeves and rail clips are to be provided at each rail joint), insertion of insulated block joint, fixing of Track lead Junction box on MS angle two numbers of size 40X40X5 mm 1200 mm length for track feed/ jumper / track relay ends of track CCTs (as per double TLJB arrangements) and also for fixing jumper cables as per insulation diagram WR Drg No. CSTE/6055 and standard practice, making rail connections through suitable insulated sleeves from Track lead Junction box at TF, jumper & TR end with seven strand PVC jacketed wire /GI wire 8 SWG, rail clips for fixing bond wire on the TLJB as per standard practice, termination of tail cables on bootleg terminals etc. TF/TR wiring shall be fixed on the suitable arrangement on PRC sleepers with the help of hooks. Hooks shall be provided on PRC sleepers with the help of suitable steel bracket. This item also includes fixing & supply of channel pins etc. The item also includes supply of MS angles/ trestles, GI wire 8 SWG / seven strand PVC jacketed wire, hooks, rail clips etc.						
31	31	4.00	Numbers	1511.99	6047.96	AT Par	6047.96
	Description:- Removal & reinstallation of Axle Counter/Tx-Rx coil (Detection Point).						
	32	6.00	Numbers	25941.39	155648.34	AT Par	155648.34

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32	Description:- Fixing of Electrical Point Machine on the extended sleepers at points as per std. practice and as per RDSO Drg No. SA 91 51-52 or 9710 or 9161 as per section of rails used. Item includes fixing switch extension bracket, providing insulation for switch extension bracket, fixing ground connection, adjusting opening of the switches and adjusting the point machine with crank handle. The item also includes : (i) Complete material for installation like ground-connections, switch extension brackets, point insulation material, I pipes, wiring materials, various fixing nuts & bolts including castle nuts, spring washers (ii) All smithy & fitting works required at site for complete installation. (iii) Installation of gauge tie plate & providing insulation for gauge tie plate (Insulation in William Stretcher Bar will be Provide by Railways). (iv) Wiring inside the point machine, insertion and termination of tail cable in point machine and junction boxes / location box /cable hut as per extant practice on WR and the instruction of Railway Engineer at site. (v) Supply and fixing of suitable size GI pipes with flange for taking cable into point machine. Note ; The ground connections shall be suitable to the Point Machines as specified by Engineer-in-charge and shall be suitable to the point lay out i.e. 60 Kg. / 52 Kg / 90R as per yard layout. Electrical Point Machine and M-6 / Screw less terminals will be supplied by Railways / covered in Schedule separately.						
33	33	2.00	Turn-out	3120.46	6240.92	AT Par	6240.92
	Description:- Refixing of electrical point machine, ground connection during phase working (No interlocked working) after removing the existing fitting if any, adjustment if necessary, cable termination, wiring, testing and commissioning of electrically operated point, fixing and connecting point indicator on derail switch if necessary. The work shall be done as per extant practice on WR & the instruction of Railway Engineer at site.						
34	34	2.00	Numbers	4028.19	8056.38	AT Par	8056.38
	Description:- Dismantling of all points complete including Ground connection, fitting ME-34 boxes and point machines with transporting them to consignee's depot or DS-8 depot as per the instruction of Engineer In-charge by contactors own vehicle & labour.						
35	35	4.00	Numbers	1685.71	6742.84	AT Par	6742.84
	Description:- Supply and fixing of CH/KLCR boxes appropriate size in field / in location boxes / in SM office / at LC gate as per site condition. It should be made of Hylam /wooden (teak wood) of high quality as per requirement. Item includes supply of any minor bracket nuts, bolts and hole drilling MS angle, MS plate etc. It also includes fixing of KLCR relays in the boxes. Prior approval to be taken from Engg. In charge before supply of box.						
36	36	10.00	Numbers	8407.90	84079.00	AT Par	84079.00
	Description:- Excavation and Casting of Apparatus Case foundation with contractor's own materials including cement and anchor bolts of standard size. The required scaffolding Ferma etc. for Casting of foundation will have to be brought by the contractor at his own cost. Single Case as per Drg No SK 748 or CSTE/5074 or SS Location.						
37	37	10.00	Numbers	1259.78	12597.80	AT Par	12597.80
	Description:- Installation of Apparatus Cases with miniature 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. 'E' Type lock will be provided by Railway. Single Case.						
38	38	5.00	Numbers	6236.52	31182.60	AT Par	31182.60
	Description:- Excavation and Casting of Apparatus Case foundation with contractor's own materials including cement and anchor bolts of standard size. The required scaffolding Ferma etc. for Casting of foundation will have to be brought by the contractor at his own cost. Half Case as per Drg No SK 747or CSTE/5074 or SS Location.						
39	39	5.00	Numbers	748.30	3741.50	AT Par	3741.50
	Description:- Installation of Apparatus Cases with miniature 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. 'E' Type lock will be provided by Railway. Half Case						
40	40	10.00	Numbers	3063.05	30630.50	AT Par	30630.50
	Description:- Fabrication and fixing of SMC sheet in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per Drg and arrangement similar to SK 783-1/2. With latest alterations & as per instructions of Rly engineer at site. Note: SMC sheet will be taken in place of phenolic laminated sheet.						
41	41	5.00	Numbers	928.06	4640.30	AT Par	4640.30
	Description:- Fabrication and fixing of SMC sheet in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per Drg and arrangement similar to SK 783-1/2. With latest alterations & as per instructions of Rly engineer at site. Note: SMC sheet will be taken in place of phenolic laminated sheet.						
42	42	5.00	Numbers	4884.93	24424.65	AT Par	24424.65
	Description:- Shifting of existing full location boxes coming in the alignment of new line. The work includes losing & removal of soil around location boxes by excavating soil around foundation, making of pit for shifting of location box horizontally opposite to railway track up to 0.5 to 1.0 mtr. This includes losing of existing cable coils without any damage. The excavated soil shall be back filled after shifting of Location Boxes. Location box shall be shifted by push method with the help of jacks or by crane by contractors own expenditure under instructions of engineer in-charge at site. The work may affect train working hence the work shall be done as per margin only or during traffic block only.						
43	43	5.00	Numbers	3778.02	18890.10	AT Par	18890.10
	Description:- Shifting of existing half location boxes coming in the alignment of new line. The work includes losing & removal of soil around location boxes by excavating soil around foundation, making of pit for shifting of location box horizontally opposite to railway This includes losing of existing cable coils without any damage. The excavated soil shall be back filled after shifting of Location Boxes. Location box shall be shifted by push method with the help of jacks or by crane by contractors own expenditure under instructions of engineer in-charge at site. The work may affect train working hence the work shall be done as per margin only or during traffic block only.						
44	44	25.00	Per Telephone	2245.88	56147.00	AT Par	56147.00
	Description:- Wiring, installing of Magneto / DTMF telephone in ASM office, at locations, Relay Room, Point locations on both directions and siding Point Control locations as per instructions of Engineer In-Charge for traffic purpose.						
	45	3000.00	Numbers	25.36	76080.00	AT Par	76080.00

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45	Description:- Termination of outdoor cables, main cables laid in location boxes, Cable termination rack etc. at both ends on ARA terminal or on 8 way terminals or on screw less connectors. Both ends of a cable core terminated shall be counted as one terminal. This includes all associated works of pulling out the cable from underground, peeling off insulation, dressing of cable core supported on sting rod with contractor's own material. The work shall be done as per instructions of Rly engineer at site.(unit read as per terminal)						
46	46	600.00	cum	521.51	312906.00	AT Par	312906.00
	Description:- Excavation of cable trench as per cable route plan,1 Mtr. deep and of 0.3 Mtr. to 0.6 Mtrs wide advised by Engineer-in-charge alongside the track in normal (all type) soil/strata, conforming to distances as per cable route plan and refilling. This work includes clearing of route from bushes etc, covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by bricks. The work shall be done as per the extant practice on Western Railway and instructions of Railway Engineer at site. In case 1m depth of trench is not achievable due to site conditions, specific approval of JA grade officer will be required for each site where trench depth of 1m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1m.						
47	47	18.00	cum	410.58	7390.44	AT Par	7390.44
	Description:- Digging of trench 1.2 M deep from rail flange/ road level and, 0.3 Mtr to 0.6 Mtr wide and back filling after placing of DWC/ RCC/GI pipe. (Placing of DWC/RCC/GI pipe covered separately). The ballast disturbed be screened and dressed as required by Engineer-in-charge or his representatives and road tarred immediately. For track crossing, Drg. No. CSTE/3644 Pg.7 of 11 and for Road Crossing, Drg. No. CSTE/3644 Pg. 5 of 11 are to be followed.						
48	48	9.00	cum	548.65	4937.85	AT Par	4937.85
	Description:- Digging of cable trench 0.3 Mtrs. Deep and 0.3 Mtrs. Wide on Asphalted Platform / Road / Hard rocky area. Refilling with earth levelling of trenches & restoring the original surface of trenches.						
49	49	50.00	Metre	1172.82	58641.00	AT Par	58641.00
	Description:- Horizontal direction drilling/boring without damage of surface road using Auger Machine. The bore shall be 150 mm dia & shall be done at the depth of minimum 1200 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. The length of the bore shall be minimum 4 Mtrs long. this include insertion of different dia DWC pipe/ GI pipes coupling etc. as per direction of Engineer In charge.						
50	50	10.00	cum	438.73	4387.30	AT Par	4387.30
	Description:- Cutting of Hard rock in trenches /Preparation of cable way/Chase 150mm wide at the bottom and 300 mm deep in hard rock (Drg prepared by contactor & approved by Engineer In charge) for laying of S&T cables where minimum required depth not possible & which is verified and agreed by Engineer In charge of the work or his representative shall be made as per Drg. No RE/S&T/ALD/SK/301/85. Refilling of the same with concrete mixture of 1:3:6 from top of the cable way/ chase. Payment of concrete will be made separately through a separate item in the schedule of work.						
51	51	1.00	Numbers	14555.90	14555.90	AT Par	14555.90
	Description:- Digging of cable pit (min 2mx2mx1m) as per instruction of Site Engineer, supplying and filling of sand before and after coiling the cables, covering top of the cable pit with stones and providing brick masonry on all four sides of the cable pit and plastering thereafter.						
52	52	50.00	cum	6551.92	327596.00	AT Par	327596.00
	Description:- Cement concrete work for miscellaneous items in the ratio 1: 3: 6. Item includes excavation, ramming, curing and plastering with cement & sand mixture (aggregate not exceeding 3.8 cm.) (Aggregate cement & sand to be supplied by the contractor).						
53	53	50.00	cum	2157.83	107891.50	AT Par	107891.50
	Description:- Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1:4 cement and sand mixture both sides, 20 mm thick each with contractor's owned class II bricks, including excavation, curing, grouting, bolting etc. wherever required. Bricks sand and cement to be supplied by the contractor.						
54	54	60.00	cum	161.74	9704.40	AT Par	9704.40
	Description:- Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds if provided, platforms etc. with earth excavated from outside railway boundary entirely arranged by the contractor at his own cost as per RDSO's latest guidelines and specifications and special condition of contract including all leads, royalty, lifts, ascents, descents, crossing of nallahs or any other obstructions. The rates shall include all dressing of bank to final profile, demarcation and setting out of profile, site clearance, removing of shrubs, roots of vegetation growth, heavy grass, benching of existing slope of old bank, all handling/re-handling. Taxes, Octroi and royalty etc. as a complete job. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special conditions of contract.						
55	55	70.00	Numbers	476.63	33364.10	AT Par	33364.10
	Description:- Supply and installation of RCC cable route marker engraved and painted on both side along the route every 50mm and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker.						
56	56	500.00	Running Metre	28.85	14425.00	AT Par	14425.00
	Description:- Laying of half round RCC pipe after laying the cables in the trenches. (Cable laying is covered separately).						
57	57	48.00	Metre	957.00	45936.00	AT Par	45936.00
	Description:- Medium Class G.I. Pipes to IS: 1239 (Pt.)-2004 or latest; 100mm dia. (int. Dia) 3.65 mm thick or above with coupling. G.I. pipes shall have ISI mark on it and contractor should submit manufacturer's test certificate of G.I. pipes.						
58	58	200.00	Running Metre	36.63	7326.00	AT Par	7326.00
	Description:- Placing of DWC/RCC pipes along with collars in trenches at places of track and road crossings, platform cuttings etc. also for straight cable laying. (Cable laying is covered separately.)						
	59	7.00	Numbers	10831.21	75818.47	AT Par	75818.47

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59				Description:- Excavation and Casting of foundation for main signal post as per CSTE/3122 (WR) with contractor's own materials including cement and anchor bolts of standard size. The required scaffolding Ferma etc. for Casting of foundation will have to be brought by the contractor at his own cost.			
	60	7.00	Numbers	5492.36	38446.52	AT Par	38446.52
60				Description:- Erection of CLS Post with base and signal unit on top or on OFF set Bracket, fixing of front and back staging, ladder and guards, signal name plates / boards if any with contractor's own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer -In-Charge at site. The Item includes cutting of Signal post if required by Site In charge. 2/3/4 aspect signal unit mounted directly on signal post.			
	61	4.00	Numbers	5660.40	22641.60	AT Par	22641.60
61				Description:- Supply & Fixing of Stop Board, Block section limit Board, goods warning board and all other boards with contractors own material. The work shall be done as per instruction of Rly. Engineer incharge as per IRSEM.			
	62	5.00	Numbers	6296.58	31482.90	AT Par	31482.90
62				Description:- Dismantling of all signals complete with signal unit, route indicator, signal foundation and other accessories complete with transporting them to consignee's depot or DS-8 depot as per the instruction of Engineer In-charge by contactors own vehicle & labour			
	63	1.00	Numbers	6660.00	6660.00	AT Par	6660.00
63				Description:- Excavation and Casting of foundation for Shunt Signal as per Drg. No. CSTE/6090 with Contractor's own materials including Cement and Anchor Bolts of Standard Size. The required scaffolding, Ferma etc for Casting of foundation will have to be brought by the Contractor at his own cost.			
	64	1.00	Numbers	3218.29	3218.29	AT Par	3218.29
64				Description:- Erection of Position Light Shunt signal with Base, Post, Signal unit and fixing of Number Plates. The work shall be done as per instructions of Rly engineer at site.			
	65	200.00	MT	575.49	115098.00	AT Par	115098.00
65				Description:- Transportation of S&T material leading up to 1 Km including Loading from Starting point, unloading & Stacking at destination.			
	66	2000.00	Kilometre	5.21	10420.00	AT Par	10420.00
66				Description:- Extra for each additional 1 Km or part thereof.			
	67	20.00	Numbers	1112.56	22251.20	AT Par	22251.20
67				Description:- Dismantling / Releasing of existing Signaling Gears. One Signalling gear will be all parts of one signal (consisting of CLS unit, Signal post along with base) or lever frame (5 levers set), or one point (consisting of all parts of a mechanical point, point machine, ground connections etc.) or one track circuits (consisting of battery box & other parts of DC Track circuit / AFTC /DAC) or one Block instruments or One Lifting Barrier or One Location Box etc. .This includes the cost of transportation of release materials to store depot or as decided by consignee in charge. This work to be done by contactors with his own vehicle and labour. (Per unit means Per Gear).			
	68	10.00	cum	676.76	6767.60	AT Par	6767.60
68				Description:- Dismantling of Concrete foundation/ Demolishing RCC/CC/Stone work /Cutting Tar/ carpentering/ CC Flooring / Precast concrete slab/ Brick work including leading the debris inside Railway limit or outside Railway limit as directed by site in charge. This work to be done by contactors with his own vehicle and labour.			
	69	1.00	Per PI/EI/RR/I	152392.86	152392.86	AT Par	152392.86
69				Description:- Miscellaneous arrangements during Pre-NI/NI comprising of : 1. Temporary goomty tent of dimension at least 12' X 12' at two to four places, as per the need at site, in the station yard. Each goomties to be furnished with two tables, Six chairs and emergency light. 2. Resting arrangement for at least 24 staff at night. 3. Vehicles for transportation arrangement for to and fro movement in the station as well as between the staff resting place during NI period. 4.Manning of station goomties to be done by contractor. 5. Catering facility includes Breakfast, Lunch, Dinner and refreshment for staff involved during NI. Note: Quantity of each item, installation, capacity etc. decided by the Railway Engineer.			
	70	16.00	Numbers	1669.81	26716.96	AT Par	26716.96
70				Description:- Installation of Maintenance Free Earth Electrode for Maintenance Free Earth spec of RDSO/SPN/197with Latest Amd. RDSO guide line / RDSO TAN should be ensured during execution.			
	71	40.00	Numbers	5509.19	220367.60	AT Par	220367.60
71				Description:- Installation of Earth Electrode including MS flat for clamp etc. and connection to signalling equipments, lever frames, apparatus cases, signal, relay rack, block instrument, etc. as per technical specification given. This item includes digging of pit in earth 3 M deep & fixing earth electrode pipe, casting of cement concrete enclosure & cover as per RDSO/SPN/ 197/2016.Soiltreatment to be done as per std. practice. This item includes provision of MS Flat, Earth lead wires and Soldering of lead wires. The other end of the wire is to be connected to block equipment, power equipment, cable sheath, and signals etc. as per site requirements. 7strand GI wire shall be used as earth lead wire. Supply of earth electrode is covered in other Item').			
	72	500.00	Kg	238.22	119110.00	AT Par	119110.00
72				Description:- Supply & installation of Fencing work around S&T apparatus case or building/office etc. As per instruction given by site in charge.			
	73	500.00	Each	24.04	12020.00	AT Par	12020.00
73				Description:- Erection of copper strip for earthing. (25 x 3mm)			
	74	1000.00	Metre	66.90	66900.00	AT Par	66900.00
74				Description:- Erection of MS flat for earth (50mm x 6mm) laid in ground/exposed.			
	75	12.00	Numbers	424.20	5090.40	AT Par	5090.40
75				Description:- Painting of Main Signal Post with Signal Units, Surface base and complete fittings as per Western Railways standard practice.			
	76	8.00	Numbers	122.91	983.28	AT Par	983.28
76				Description:- Painting of Point Machine with ground connections complete (Point Machine with Black enamel only outside and ground connections with Red Oxide)			

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77	77	20.00	Numbers	341.49	6829.80	AT Par	6829.80	
	Description:- Painting Apparatus Case Full Size. (Outside & inside)							
78	78	15.00	Numbers	320.14	4802.10	AT Par	4802.10	
	Description:- Painting of Apparatus case Half Size. (Outside & inside)							
79	79	2.00	Numbers	247.73	495.46	AT Par	495.46	
	Description:- Painting Shunt signal post with signal unit, surface base as per Western Railway's Standard Practice.							
80	80	50.00	Numbers	320.30	16015.00	AT Par	16015.00	
	Description:- Painting and writing work of earth pits as per standard practice of western railway.							
81	81	14.00	Numbers	1448.00	20272.00	AT Par	20272.00	
	Description:- Fabrication and fixing of 'A' Marker (Drg No. CSTE/6180), 'AG' Marker (Drg No. CSTE/6181), 'P' Marker (Drg No. CSTE/6182), Arrow Marker (Drg No. CSTE/6183), 'G' Marker (Drg No. CSTE/6184), 'C' Marker (Drg No. CSTE/6185). Marker disk on signals as per standard practice All material required for this work shall be supplied by Contractor.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C-(MSDAC)							3141957.10	Above/ Below/Par
1	1	10.00	Per Detection Point (DP)	314195.71	3141957.10	AT Par	3141957.10	
	Description:- Supply of Multi Section Digital Axle Counter (MSDAC) for mentioned detection Point by the purchased & track Section as per SIP, complete with all accessories, cable required with each track device & card viz. Axle detectors, Track Side Electronics/DAC field units, Central Evaluator (Central Evaluator unit should be housed in a pre-fabricated rack to be supplied along with the system), reset unit, Relay unit, Event Logger & Diagnostic terminals, etc. Required for different Detection Points & Track Sections as per RDSO Specifications No. RDSO/SPN/176/2013, Ver.3 or latest and OEM/ manufacturer's specification and as per Annexures. (Quantity 01 No. = 01 DP) Inspection Authority: RDSO. Note:- As per WR's Policy No 03/2024 Para No. 3.4.2.e.iv "VDU/Reset box can be used for resetting. At Stations having more than 10 Track sections, the Railway propose to use a separate VDU-based resetting system. Such a VDU-based system if using a PC, it must be industrial grade".							

3. ITEM BREAKUP

No item break up added	
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4. ELIGIBILITY CONDITIONS

Standard Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have minimum average annual contractual turnover of 'V/N' or 'V' whichever is less; where, V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Similar Nature of Work :- Any RI or EI or CLS or ABS or IBS work involving indoor & outdoor work (cable laying & termination).	No	No	Allowed (Mandatory)

Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i) Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or (ii) Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or (iii) One similar work costing not less than the amount equal to 60% of advertised value of the tender.	No	No	Allowed (Mandatory)

Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.

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2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.
9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.

S.No.	Description
1	Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. Please submit a certificate in the prescribed format (please download the format from the link given below). Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. (Click here to download the Format of Self Certification)

5. COMPLIANCE

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)
2	Checklist for Tenderer: The Tenderer shall submit signed copy of Check-list placed in documents attached with tender. The Tenderer shall also submit relevant documents of compliance of the checklist if any.	No	No	Allowed (Mandatory)

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	While bidding, bidder should submit the MOU of RDSO approved source (OEM or his RDSO approved source) of existing MEDHA make EI at the time of bidding covering supply of the equipment of EI, installation, alteration, testing and commissioning of EI including after sales support required during the warranty period and beyond the warranty period, failing which tender/offer shall be summarily rejected.	No	No	Allowed (Mandatory)

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/We have read the tender notice (NIT)detail, schedule of material and works and Tender document along with all the conditions attached/referred to, in this tender document and agree to abide by the said conditions.	No	No	Not Allowed
2	It is certified that i am the authorized person to represent the firm and I am authorized to sign the tender and all the document on behalf of the firm.	No	No	Not Allowed
3	I/We hereby agree to abide by the Indian Railway Standard General Condition of contract (GCC) with all correction slip up to date and to carry out the work according to the special conditions of contract and specification of material and works as laid down by Railway as mentioned in the tender document.	No	No	Not Allowed

6. Documents attached with tender

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S.No.	Document Name	Document Description
1	GCC-2022-uptoACS10_merged_compressed.pdf	GCC ACS 10
2	SignedJPOBVPDivisionforundertakingdiggingworkinthevicinityofSTandElectricalcablesmerged._1.pdf	Signed JPO BVP Division for underta
3	CHECKLISTFORTENDERERmorethan50Lacs.pdf	checklist more than 50 lakh
4	GCCACS11Merged_compressed.pdf	GCC Correction slip 11
5	TenderConditionandScheduleofworkBNH.pdf	Schedule and tender conditions

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: SHARAT KUMAR SINGH

Designation : DSTEBVP